



30 2631

<b>TRANSMITTAL FORM</b> (to be used for all correspondence after initial filing)		Application No.	09/955,566
		Filing Date	September 17, 2001
		First Named Inventor	Manish Shaw
		Art Unit	2631
		Examiner Name	Unassigned
Total Number of Pages in This Submission	30	Attorney Docket Number	4259P033

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ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Response	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	<div>Copies of cited art (22). Return Postcard</div>
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> CD, Number of CD(s)	
<input checked="" type="checkbox"/> PTO/SB/08		
<input type="checkbox"/> Certified Copy of Priority Document(s)		
<input type="checkbox"/> Response to Missing Parts/Incomplete Application	Remarks	
<input type="checkbox"/> Basic Filing Fee		
<input type="checkbox"/> Declaration/POA		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Thomas C. Webster, Reg. No. 46,154 BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
Signature	
Date	8/10/04

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Typed or printed name	Alma Goldchain		
Signature		Date	8/11/04



# FEE TRANSMITTAL for FY 2004

Effective 01/01/2004. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27.

TOTAL AMOUNT OF PAYMENT (\$) 0.00

## Complete if Known

Application Number 09/955,566  
Filing Date September 17, 2001  
First Named Inventor Manish Shaw  
Examiner Name Unassigned  
Art Unit 2631  
Attorney Docket No. 4259P033

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## METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None  
☒ Deposit Account

Deposit  
Account  
Number

02-2666

Deposit  
Account  
Name

Blakely, Sokoloff, Taylor & Zafman LLP

The Commissioner is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments  
☒ Charge any additional fee(s) or underpayment of fees as required under 37 CFR §§ 1.16, 1.17, 1.18 and 1.20.  
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	770	2001	385	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	
SUBTOTAL (1)					(\$)

### 2. EXTRA CLAIM FEES

Total Claims  - 20\* =  X  =   
Independent Claims  - 3 =  X  =   
Multiple Dependent  =

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1202	18	2202	9	Claims in excess of 20	
1201	86	2201	43	Independent claims in excess of 3	
1203	290	2203	145	Multiple Dependent claim, if not paid	
1204	86	2204	43	**Reissue independent claims over original patent	
1205	18	2205	9	**Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)					(\$)

\*or number previously paid, if greater, For Reissues, see below

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
2053	130	2053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1404	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	2451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	2460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	1809	385	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	
Other fee (specify)				Submission of IDS prior to First Office Action	0.00

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 0.00

## SUBMITTED BY

## Complete (if applicable)

Name (Print/Type) Thomas C. Webster Registration No. 46,154 Telephone (408) 720-8300  
Signature *Thomas Webster* Date 8/10/04



Attorney's Docket No. 004259.P033

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Manish Shah

Application No.: 09/955,566

Filed: September 17, 2001

For: A FORWARD TRACING DECODER  
APPARATUS AND METHOD

Examiner: Not Yet Assigned

Art Unit: 2631

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Technology Center, LLC

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(Date of Deposit)

Alma Goldchain

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(Signature of person mailing correspondence)

(Date)

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  X   37 C.F.R. §1.97(b).

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       A statement pursuant to 37 C.F.R. §1.97(e) or

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If there are any additional charges, please charge Deposit Account No. 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: 8/10, 2004



Thomas C. Webster  
Reg. No. 46,154

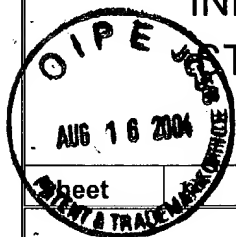
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## INFORMATION DISCLOSURE

## STATEMENT BY APPLICANT

(use as many sheets as necessary)



Sheet

of

2

## Complete if Known

Application Number	09/955,566
Filing Date	September 17, 2001
First Named Inventor:	Manish Shah
Art Unit	2631
Examiner Name	Not Yet Assigned
Attorney Docket Number	004259.P033

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (If known)				
		US-	4,015,238	3/29/1977	Robert Curtis Davis	RECEIVED
		US-	5,027,374	6/25/1991	Mark W. Rossman	
		US-	5,291,499 A	3/1/1994	Behrens et al.	AUG 17 2004
		US-	5,295,142	3/15/1994	Izumi Hatakeyama	
		US-	5,349,608	9/20/1994	Graham, et al.	Technology Center 2600
		US-	5,608,737 A	3/4/1997	Kimura, et al.	
		US-	5,907,586	5/25/1999	Katsuragawa, et al.	
		US-	6,189,126 B1	2/13/2001	Ulmer, et al.	
		US-	6,266,687 B1	7/24/2001	Leyonhjelm, et al.	
		US-	6,278,725 B1	8/21/2001	Rouphael et al.	
		US-	6,301,314 B1	10/9/2001	Murayama, Jun	
		US-	6,563,889 B1	5/13/2003	Shih, et al.	
		US-				
		US-				
		US-				

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		WO 00/74264	A1	12/7/2000	Martone, Massimiliano		
		WO 01/59937	A2	8/16/2001	Qualcomm Inc.		

Examiner  
Signature

Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

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## INFORMATION DISCLOSURE

## STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

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Filing Date

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First Named Inventor:

Manish Shah

Art Unit

2631

Examiner Name

Not Yet Assigned

Attorney Docket Number

004259.P033

AUG 17 2004

## NON PATENT LITERATURE DOCUMENTS

Technology Center 2600

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		BREE, ET AL., "A Bit-Serial Architecture For A VLSI Viterbi Processor", Communications Systems Research Group, University of Saskatchewan, Saskatoon, IEEE, WESCANEX '88, 1988, pages 72-77.	
		BIVER, ET AL., "Architectural Design and Realization Of A Single-Chip Viterbi Decoder", Elsevier Science Publishers B.V., INTEGRATION, The VLSI Journal 8 (1989), October, No. 1, Amsterdam, NL, Pages 3-16.	
		BREE, ET AL., "A Modular Bit-Serial Architecture For Large Constraint-Length Viterbi Decoding", Communications Systems Research Group, University of Saskatchewan, Saskatoon, Canada, IEEE International Conference on Communications", 1990, pages 1501-1506.	
		CHOI, ET AL., "Viterbi Detector Architecture For High-Speed Optical Storage", 1997, IEEE TENCON - Speech and Image Technologies for Computing and Telecommunications, ASIC Center Corporate Technical Operations SAMSUNG Electronics, Vol. 1, Dec 1997, pages 89-92.	
		MARIE-LAURE BOUCHERET, IVAR MORTENSEN and HENRI FAVARO, "Fast Convolution Filter Banks For Satellite Payloads with On-Board Processing," IEEE Journal On Selected Areas In Communications, Vol. 17, No. 2, February 1999	
		W.H. YIM and F.P. COAKLEY, "On-Board Processing For KA-Band Applications", University of Surrey, UK, Publication Date, February 11, 1993., XP 000458011, pp. 225-229.	
		BOUCHERET/MORTENSEN/FAVARO, "Fast Convolution Filter Banks for Satellite Payloads with On-Board Processing," IEE Journal on Selected Areas in Communications, February 1999, pp. 238-247, Vol. 17, No. 2, XP-000851758	
		HASHIDA MITSUYOSHI, "Hierachical Network Management System and Control Method for Network Management Information," Patent Abstracts of Japan, Publication No. 07226777	

Same

Examiner  
SignatureDate  
Considered

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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